

Oncogene 9, 1745-1750, 1994
 A:Title: MLK-3: identification of a widely-expressed protein kinase bearing an SH3 domain
 A:Reference number: 158395; MUID:94239754; PMID:8183572
 A:Accession: 158395
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-847 <RES>
 A:Cross-references: GB:132976; NID:9488295; PIDN:AAA59859.1; PID:9488296
 C:Genetics:
 A:Gene: GDB:MLK3; PTK1; SPRK
 A:Cross-references: GDB:134755; OMIM:600050
 A:Map position: 19q13.1-19q13.3
 C:Superfamily: mixed-lineage protein kinase 3; protein kinase homology; SH3 homology
 C:Keywords: ATP; leucine zipper; phosphotransferase; serine/threonine-specific protein
 E:48-100/Domain: SH3 homology <SH3>
 F:115-383/Domain: protein kinase homology <KIN>
 F:123-131/Region: protein kinase ATP-binding motif
 F:403-424/Region: leucine zipper motif
 F:438-459/Region: leucine zipper motif
 F:468-482/Region: basic

Query Match 78.8%; Score 231; DB 1; Length 847;
 Best Local Similarity 77.8%; Pred. No. 1,6e-15;
 Matches 42; Conservative 7; Mismatches 5; Indels 0; Gaps 0;

Qy 1 HRDIAKNILLLEKIEHDDCKNTKITDFGLAREHRTTKMSTAGTYAMAP 54
 DB 239 HRDIAKNILLLEKIEHDDCKNTKITDFGLAREHRTTKMSTAGTYAMAP 292

RESULT 3

mixed-lineage protein kinase 2 (EC 2.7.1.-) - human
 C:Species: Homo sapiens (man)
 C:Date: 28-Oct-1996 #sequence_revision 13-Mar-1997 #text_change 11-Jun-1999
 C:Accession: 568178; 138044; S32468
 R:Dorow, D.S.; Devereux, L.; Tu, G.F.; Price, G.; Nicholl, J.K.; Sutherland, G.R.; Simps
 Bur, J. Biochem. 234, 492-500, 1995
 A:Title: Complete nucleotide sequence, expression, and chromosomal localization of human
 A:Reference number: 568178; MUID:96128179; PMID:8536694
 A:Accession: 568178
 A:Molecule type: mRNA
 A:Residues: 1-954 <DOR>
 A:Cross-references: EMBL:X90846; NID:9971419; PIDN:CAA62351.1; PID:9971420
 R:Katoh, M.; Hirai, M.; Sugimura, T.; Terada, M.
 Oncogene 10, 1447-1451, 1995
 A:Title: Cloning and characterization of MST, a novel (putative) serine/threonine kinase
 A:Reference number: 138044; MUID:99249256; PMID:7731697
 A:Accession: 138044
 A:Status: translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-461, 'A', 'V', 'A', 'S', 'A', '7', '4', '7', '8', '0', '6', 'R', '8', '0', '8', '8', '1', '7', 'A', '8', '1', '9', '9', '5', 'A' <RES>
 A:Cross-references: EMBL:Z48615; NID:9738592; PIDN:CAA8531.1; PID:9738593
 R:Dorow, D.S.; Devereux, L.; Dietzsch, E.; de Kretser, T.
 Eur. J. Biochem. 213, 701-710, 1993
 A:Title: Identification of a new family of human epithelial protein kinases containing t
 A:Reference number: S32467; MUID:93238756; PMID:8477742
 A:Accession: S32468
 A:Molecule type: mRNA
 A:Residues: 244-464, 'AQAAGRRQHPQPALML' <DOR>
 C:Genetics:
 A:Gene: GDB:MLK2; GDB:MSR
 A:Cross-references: GDB:362654; GDB:624810; OMIM:600137
 A:Map position: 19q13.1-19q13.2
 C:Superfamily: mixed-lineage protein kinase 2; protein kinase homology; SH3 homology
 C:Keywords: ATP; leucine zipper; phosphotransferase; serine/threonine-specific protein
 E:23-76/Domain: SH3 homology <SH3>
 F:96-364/Domain: protein kinase homology <KIN>
 F:104-112/Region: protein kinase ATP-binding motif
 F:384-405/Region: leucine zipper motif
 F:419-440/Region: leucine zipper motif
 F:449-463/Region: basic
 F:125,145,222,224/Active site: Lys, Glu, Asp, Lys #status predicted

Query Match 73.7%; Score 216; DB 1; Length 954;
 Best Local Similarity 72.2%; Pred. No. 5.7e-14;
 Matches 39; Conservative 8; Mismatches 7; Indels 0; Gaps 0;

Qy 1 HRDIAKNILLLEKIEHDDCKNTKITDFGLAREHRTTKMSTAGTYAMAP 54
 DB 220 HRDIAKNILLLEKIEHDDCKNTKITDFGLAREHRTTKMSTAGTYAMAP 273

RESULT 4

protein kinase ATN1-like protein - Arabidopsis thaliana
 N:Alternate names: protein T20L15.120
 C:Species: Arabidopsis thaliana (mouse-ear cress)
 C:Date: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_change 02-Sep-2000
 C:Accession: T48206
 R:Bevan, M.; Peters, S.A.; van Staveren, M.; Dirkse, W.; Stiekema, W.; Bancroft, I.;
 submitted to the Protein Sequence Database, March 2000
 A:Reference number: Z24488
 A:Accession: T48206
 A:Status: preliminary
 A:Molecule type: DNA
 A:Residues: 1-356 <BEV>
 A:Cross-references: EMBL:AL162351
 A:Experimental source: cultivar Columbia; BAC clone T20L15
 C:Genetics:
 A:Map position: 5
 A:Introns: 170/1; 211/3; 264/3
 A:Note: T20L15.120
 C:Superfamily: kinase-related transforming protein; protein kinase homology

Query Match 43.3%; Score 127; DB 2; Length 356;
 Best Local Similarity 51.8%; Pred. No. 1,6e-05;
 Matches 29; Conservative 7; Mismatches 10; Indels 10; Gaps 3;

Qy 1 HRDIAKNILLLEKIEHDDCKNTKITDFGLAREHRTTKMSTAGTYAMAP 54
 DB 164 HRDIAKNILLLEKIEHDDCKNTKITDFGLAREHRTTKMSTAGTYAMAP 211

RESULT 5

protein kinase (EC 2.7.1.37) ZPK - human
 N:Alternate names: leucine zipper protein kinase
 C:Species: Homo sapiens (man)
 C:Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 02-Feb-2001
 C:Accession: J02363
 R:Reddy, U.R.; Pleasure, D.
 Biochem. Biophys. Res. Commun. 202, 613-620, 1994
 A:Title: Cloning of a novel putative protein kinase having a leucine zipper domain fr
 A:Reference number: J02363; MUID:94311945; PMID:8037767
 A:Accession: J02363
 A:Molecule type: mRNA
 A:Residues: 1-668 <RED>
 A:Cross-references: EMBL:U07358
 A:Experimental source: brain
 A:Note: the nucleotide sequence for this amino acid sequence is inconsistent with the
 he codon ACC for residue 661 as pro. the codon GAGCAGCTCTCA for residues 664-668 a
 C:Comment: This protein belongs to the family of non-receptor kinase.
 C:Genetics:
 A:Gene: GDB:ZPK
 A:Cross-references: GDB:383963; OMIM:600447
 A:Map position: 12q13-12q13
 C:Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; protein kinase hom
 C:Keywords: ATP; leucine zipper; nucleotide binding; P-loop; phosphotransferase
 E:123-371/Domain: protein kinase homology <KIN>
 F:131-139/Region: protein kinase ATP-binding motif
 F:443-471/Region: leucine zipper motif
 F:538-545/Region: nucleotide-binding motif A (P-loop)
 F:152/Active site: Lys #status predicted

Query Match 42.5%; Score 124.5; DB 2; Length 668;

A:Map position: 4
A:Introns: 70/2; 108/3; 164/2; 222/3; 259/3; 276/3; 328/2; 353/1; 411/3; 443/3; 4
A:Note: F20M13.30

Query Match 39.1%; Score 114.5; DB 2; Length 545;
Best Local Similarity 45.5%; Pred. No. 0.00042;
Matches 25; Conservative 9; Mismatches 12; Indels 9; Gaps 2;

Oy 1 HRDIAKAGNILLLEKIEHDDICNKTITDFGLAREHMT--TKMSTAGTYAMAP 54
DB 397 HRDIAKAGNILLLEKIEHDDICNKTITDFGLAREHMT--TKMSTAGTYAMAP 54

RESULT 11

Probable mitogen-activated protein kinase MAP3K delta-1 [imported] - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 24-Oct-2000 #sequence_revision 24-Oct-2000 #text_change 08-Dec-2000
C:Accession: T52626
R:Jouanin, S.; Hamal, A.; Lepoint, A.S.; Tregear, J.W.; Kreis, M.; Henry, Y.
Gene 229, 171-81, 1999

A:Title: Characterisation of novel plant genes encoding MEKK/STK11 and RAF-related proteins
A:Reference number: Z24447; MUID:9919696; PMID:10095117
A:Accession: T52626

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-406 <D0>
A:Cross-references: EMBL:Y14199; NID:92253009; PIDN:CAA74591.1; PID:92253010

A:Experimental source: cultivar Columbia

C:Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; protein kinase homolog

Query Match 37.9%; Score 111; DB 2; Length 406;
Best Local Similarity 48.2%; Pred. No. 0.00071;
Matches 27; Conservative 8; Mismatches 11; Indels 10; Gaps 3;

Oy 1 HRDIAKAGNILLLEKIEHDDICNKTITDFGLAREHMT--TKMSTAGTYAMAP 54
DB 256 HRDIAKAGNILLLEKIEHDDICNKTITDFGLAREHMT--TKMSTAGTYAMAP 54

RESULT 12

MAP3K delta-1 protein kinase - Arabidopsis thaliana
N:Alternate names: protein f14f18.20
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_change 20-Apr-2000

C:Accession: T48544

R:Bevan, M.; Hilbert, H.; Braun, M.; Holzer, E.; Brandt, A.; Duesterhoeft, A.; Bancroft, I.; Schmitt, S.; Zimmermann, F.K.
Submitted to the Protein Sequence Database, April 2000

A:Reference number: Z24490

A:Accession: T48544

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-886 <BBV>

A:Cross-references: EMBL:AL163812

A:Experimental source: cultivar Columbia; BAC clone F14F18

C:Genetics:

A:Map position: 5

A:Introns: 148/3; 180/3; 327/3; 362/2; 568/3; 658/1; 671/3; 694/3; 728/2; 754/3; 810/3;

A:Note: F14F18.20

RESULT 13

hypothetical protein F25P22.8 [imported] - Arabidopsis thaliana

C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 31-Mar-2001
C:Accession: F6763

R:Theologis, A.; Becker, J.R.; Palm, C.D.; Federspiel, N.A.; Kaul, S.; White, O.; Alon Chiu, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, ansen, N.F.; Hughes, B.; Hultzer, L.
Nature 408, 816-820, 2000

A:Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.A.; Li, J.H.; Lin, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luvois, J.S.; Malt, R.; Marzia

Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
A:Authors: Salberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallo

ket, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.
A:Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.

A:Reference number: A86141; MUID:21016719; PMID:11130712

A:Accession: F6763

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-1030 <STO>

A:Cross-references: GB:AE005173; NID:96692730; PIDN:AAF24836.1; GSPDB:GN0141

C:Genetics:

A:Gene: F25P22.8

A:Map position: 1

Query Match 37.9%; Score 111; DB 2; Length 1030;
Best Local Similarity 48.2%; Pred. No. 0.0018;
Matches 27; Conservative 8; Mismatches 11; Indels 10; Gaps 3;

Oy 1 HRDIAKAGNILLLEKIEHDDICNKTITDFGLAREHMT--TKMSTAGTYAMAP 54
DB 869 HRDIAKAGNILLLEKIEHDDICNKTITDFGLAREHMT--TKMSTAGTYAMAP 54

RESULT 14

protein kinase BCK1 (EC 2.7.1.-) - yeast (Saccharomyces cerevisiae)
N:Alternate names: protein J0906; protein kinase SLK1; protein kinase SSP31; protein
C:Species: Saccharomyces cerevisiae
C:Date: 23-Apr-1993 #sequence_revision 23-Apr-1993 #text_change 24-Sep-1999
C:Accession: S20117; S50298; S22285; S19061; J01432; S56872; S30794; J01118

R:Costigan, C.; Gehring, S.; Snyder, M.
Mol. Cell. Biol. 12, 1162-1178, 1992

A:Title: A synthetic lethal screen identifies SLK1, a novel protein kinase homolog in
A:Reference number: S20117; MUID:92186847; PMID:1545797

A:Accession: S20117

A:Molecule type: DNA

A:Residues: 1-1478 <COS>

A:Cross-references: EMBL:M84389

A:Experimental source: strain S288C

R:Mitsuga, T.; Boles, E.; Schmitt, G.; Gerstenschlaeger, I.; Schmitt, S.; Zimmermann, F.K.
Yeast 10, 1481-1488, 1994

A:Title: Sequence and function analysis of a 9.74 kb fragment of Saccharomyces cerevi
A:Reference number: S50295; MUID:95176706; PMID:7871887

A:Accession: S50298

A:Status: nucleic acid sequence not shown

A:Molecule type: DNA

A:Residues: 1-1478 <MIO>

A:Cross-references: EMBL:X77923; NID:9640004; PIDN:CAA54896.1; PID:9640009

R:Lee, K.S.; Levin, D.E.
Mol. Cell. Biol. 12, 172-182, 1992

A:Title: Dominant mutations in a gene encoding a putative protein kinase (BCK1) bypas
A:Reference number: S22285; MUID:92107156; PMID:1729597

A:Accession: S22285

A:Molecule type: DNA

A:Residues: 1-58, 'I', 60-1478 <LEE>

A:Cross-references: EMBL:X60227

A:Experimental source: strain EG123

R:Lee, K.S.; Levin, D.E.
submitted to the EMBL data library, June 1991

A:Description: An extragenic suppressor of mutations in the S. cerevisiae protein kin
A:Reference number: S19061

A:Accession: S19061

A:Molecule type: DNA

A:Residues: 1-58, 'I', 60-263, 'P', 265-278, 'T', 280-702, 'S', 707-708, 'KP', 714, 'VTMT', 715



1
2
3